

WHAT IS CLAIMED IS:

1. An electrical box for receiving an electrical unit, comprising:
a low voltage section configured to provide a low voltage connection;
a barrier to isolate the low voltage connection; and
a high voltage section separated from the low voltage section via the barrier to provide a high voltage connection, the high voltage section comprising,
a plurality of bus bars, and
a plurality of displacement connectors coupled to the plurality of bus bars and configured redundantly to accept wires.
2. The electrical box of Claim 1, wherein the plurality of bus bars form a plurality of groups, the bus bars associated with each of the groups correspond respectively to hot, neutral, ground, and alternative hot conductivities, the high voltage section further comprising:
a neutral member coupled to the bus bars that correspond to the neutral conductivity; and
a ground member coupled to the bus bars that correspond to the ground conductivity.
3. The electrical box of Claim 2, further comprising:
a removable tab connected to the neutral member and one of the bus bars corresponding to the neutral conductivity.
4. The electrical box of Claim 1, wherein the plurality of bus bars have screw holes that are configured to receive clamp type wire connectors.
5. The electrical box of Claim 1, wherein the plurality of displacement connectors are knife blade type connectors.
6. The electrical box of Claim 1, wherein some of the plurality of bus bars include rigid conductive fingers to provide connectivity with the electrical unit.
7. The electrical box of Claim 1, further comprising:
a plurality of spacers to prevent connectivity with the ground member.
8. An apparatus for receiving an electrical unit, comprising:
a housing having a first compartment configured to provide a low voltage connection and a second compartment configured to provide a high voltage connection, the first compartment and the second compartment being electrically isolated, the second compartment comprising,

a plurality of bus bars, and
a plurality of displacement connectors coupled to the plurality of bus bars and
configured redundantly to accept wires; and
a cover plate attached to a backside of the housing to hold wires into the plurality of
displacement connectors.

9. The apparatus of Claim 8, wherein the plurality of bus bars form a plurality of groups,
the bus bars associated with each of the groups correspond respectively to hot, neutral, ground,
and alternative hot conductivities, the second compartment further comprising:

a neutral member coupled to the bus bars that correspond to the neutral conductivity; and
a ground member coupled to the bus bars that correspond to the ground conductivity.

10. The apparatus of Claim 9, further comprising:

a removable tab connected to the neutral member and one of the bus bars corresponding
to the neutral conductivity.

11. The apparatus of Claim 8, wherein the plurality of bus bars have screw holes that are
configured to receive clamp type wire connectors.

12. The apparatus of Claim 8, wherein the plurality of displacement connectors are knife
blade type connectors.

13. The apparatus of Claim 8, wherein some of the plurality of bus bars include rigid
conductive fingers to provide connectivity with the electrical unit.

14. The apparatus of Claim 8, wherein the cover plate includes a plurality of push bars to
secure the wires onto the plurality of displacement connectors.

15. The apparatus of Claim 8, wherein the cover plate includes a plurality of push bars to
secure the wires onto the plurality of displacement connectors.

16. The apparatus of Claim 8, further comprising:

a plurality of spacers to prevent connectivity with the ground member.

17. An electrical box for receiving an electrical unit, comprising:

means for housing a low voltage connection;

means for isolating the low voltage connection;

means for housing a high voltage connection separated from the means for housing the low voltage connection via the isolation means; and

means for electrically connecting wires within the means for housing the high voltage connection.

18. The electrical box of Claim 17, wherein the means for electrically connecting the wires comprises:

a plurality of bus bars, and

a plurality of displacement connectors coupled to the plurality of bus bars and configured redundantly to accept the wires.

19. The electrical box of Claim 18, wherein the plurality of bus bars form a plurality of groups, the bus bars associated with each of the groups correspond respectively to hot, neutral, ground, and alternative hot conductivities, the electrical box further comprising:

a neutral member coupled to the bus bars that correspond to the neutral conductivity; and a ground member coupled to the bus bars that correspond to the ground conductivity.

20. The electrical box of Claim 19, further comprising:

means for removably connecting the neutral member and one of the bus bars corresponding to the neutral conductivity.

21. The electrical box of Claim 19, further comprising:

means for prevent connectivity with the ground member.

22. The electrical box of Claim 18, wherein the plurality of bus bars have screw holes that are configured to receive clamp type wire connectors.

23. The electrical box of Claim 18, wherein the plurality of displacement connectors are knife blade type connectors.

24. The electrical box of Claim 18, wherein some of the plurality of bus bars include rigid conductive fingers to provide connectivity with an electrical unit.